

Set	Items	Description
S1	1	WHEEL (W) REVOLUTION (2W) PROPAGATING (W) ALONG
S2	0	S2 AND ((TOTAL (3W) DISTANCE) (S) (WHEEL (3N) ROTATION))
S3	0	S1 AND ((TOTAL (3W) DISTANCE) (S) (WHEEL (3N) ROTATION))
S4	0	S1 AND ((TOTAL (5W) DISTANCE) (S) (WHEEL (5N) ROTATION))
S5	2	RAIL AND TRAIN AND ((TOTAL (5W) DISTANCE) (S) (WHEEL (5N) - ROTATION))
S6	2	SEGMENT AND ((TOTAL (5W) DISTANCE) (S) (WHEEL (5N) ROTATIO- N))
S7	3	SENSOR AND ((TOTAL (5W) DISTANCE) (S) (WHEEL (5N) ROTATION- ))
?		

T S5/3/1-2

5/3/1

DIALOG(R)File 349:PCT FULLTEXT

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01199057 \*\*Image available\*\*

**METHOD AND SYSTEM FOR COMPENSATING FOR WHEEL WEAR ON A TRAIN**

**PROCEDE ET SYSTEME DE COMPENSATION DE L'USURE DES ROUES SUR UN TRAIN**

Patent Applicant/Assignee:

QUANTUM ENGINEERING INC, 352 Stowe Avenue, Orange Park, FL 32073, US, US  
(Residence), US (Nationality)

Inventor(s):

KANE Mark Edward, 2653 Holly Point Drive, Orange Park, FL 32073, US,  
SHOCKLEY James Francis, 3011 Doctors Lake Drive, Orange Park, FL 32073,  
US,  
HICKENLOOPER Harrison Thomas, 179 Buffalo Bluff Road, Palatka, FL 32177,  
US,

Legal Representative:

KELBER Steven B (et al) (agent), Piper Rundnick, LLP, 1200 Nineteenth  
Street, N.W., Washington, DC 20036, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200505222 A2-A3 20050120 (WO 0505222)

Application: WO 2004US20991 20040701 (PCT/WO US04020991)

Priority Application: US 2003609377 20030701

Designated States:

(All protection types applied unless otherwise stated - for applications  
2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO  
RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PL PT RO  
SE SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 4871

5/3/2

DIALOG(R)File 349:PCT FULLTEXT

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01073100 \*\*Image available\*\*

**METHOD AND SYSTEM FOR COMPENSATING FOR WHEEL WEAR ON A TRAIN**

**PROCEDE ET SYSTEME POUR COMPENSER L'USURE D'ESSIEUX MONTES D'UN TRAIN**

Patent Applicant/Assignee:

QUANTUM ENGINEERING INC, 352 Stowe Avenue, Orange Park, FL 32073, US, US  
(Residence), US (Nationality)

Inventor(s):

KANE Mark Edward, 2653 Holly Point Drive, Orange Park, FL 32073, US,  
SHOCKLEY James Francis, 3011 Doctors Lake Drive, Orange Park, FL 32073,  
US,  
HICKENLOOPER Harrison Thomas, Route 3, Box 1830, Palatka, FL 32177, US,

Legal Representative:

KELBER Steven B (et al) (agent), Piper Rudnick LLP, 1200 Nineteenth  
Street, N.W., Washington, DC 20036, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 2003102619 A2-A3 20031211 (WO 03102619)  
Application: WO 2003US17212 20030602 (PCT/WO US03017212)  
Priority Application: US 2002157874 20020531

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PH PL PT RO RU SC SD SE  
SG SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE  
SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 5476

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T S1/3/1-2

1/3/1 (Item 1 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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00987638

**Intergrated cab signal rail navigation system**

**Integriertes Fuhrerstandsmelde- und Schienennavigationssystem**

**Système integre de signalisation de cabine et de navigation ferroviaire**

PATENT ASSIGNEE:

WESTINGHOUSE AIR BRAKE COMPANY, (1363620), 1000 Air Brake Avenue,

Wilmerding, PA 15148, (US), (applicant designated states:

AT;BE;CH;CY;DE;DK;ES;FI;FR;GB;GR;IE;IT;LI;LU;MC;NL;PT;SE)

INVENTOR:

Kull, Robert C., 17320 Evangeline Lane, Olney, Maryland 20832, (US)

LEGAL REPRESENTATIVE:

Petri, Stellan (23987), Strom & Gulliksson AB Box 41 88, 203 13 Malmo,  
(SE)

PATENT (CC, No, Kind, Date): EP 893323 A1 990127 (Basic)

APPLICATION (CC, No, Date): EP 98108021 980502;

PRIORITY (CC, No, Date): US 898373 970722

DESIGNATED STATES: DE; FR; GB; IT

INTERNATIONAL PATENT CLASS: B61L-003/00;

ABSTRACT WORD COUNT: 232

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9904	2004
SPEC A	(English)	9904	6686
Total word count - document A			8690
Total word count - document B			0
Total word count - documents A + B			8690

1/3/2 (Item 2 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

(c) 2005 European Patent Office. All rts. reserv.

00987615

**Rail vision system**

**Schienensichtsystem**

**Système de vision de voie ferree**

PATENT ASSIGNEE:

WESTINGHOUSE AIR BRAKE COMPANY, (1363620), 1000 Air Brake Avenue,

Wilmerding, PA 15148, (US), (Proprietor designated states: all)

INVENTOR:

Kull, Robert C., 17320 Evangeline Lane, Olney, Maryland 20832, (US)

LEGAL REPRESENTATIVE:

Petri, Stellan et al (23987), Strom & Gulliksson AB Box 41 88, 203 13  
Malmo, (SE)

PATENT (CC, No, Kind, Date): EP 893322 A1 990127 (Basic)

EP 893322 B1 021127

APPLICATION (CC, No, Date): EP 98102039 980206;

PRIORITY (CC, No, Date): US 898648 970722

DESIGNATED STATES: DE; FR; GB; IT

INTERNATIONAL PATENT CLASS: B61L-003/00; B61L-029/00

ABSTRACT WORD COUNT: 206

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	199904	2275
CLAIMS B	(English)	200248	900
CLAIMS B	(German)	200248	799
CLAIMS B	(French)	200248	1247
SPEC A	(English)	199904	7553
SPEC B	(English)	200248	7333
Total word count - document A			9830
Total word count - document B			10279
Total word count - documents A + B			20109
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File 348:EUROPEAN PATENTS 1978-2005/Oct W04

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File 349:PCT FULLTEXT 1979-2005/UB=20051027,UT=20051020

(c) 2005 WIPO/Univentio

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Set	Items	Description
S1	2	RAIL (W) VISION (W) SYSTEM
S2	0	S1 AND (TOTAL (3W) DISTANCE) AND REVOLUTION
S3	1	SENSOR AND ((TOTAL (7W) DISTANCE) (S) (WHEEL (5N) REVOLUTI- ON))
?		

## LEGAL REPRESENTATIVE:

Petri, Stellan (23987), Strom & Gulliksson AB Box 41 88, 203 13 Malmo,  
(SE)

PATENT (CC, No, Kind, Date): EP 893323 A1 990127 (Basic)

APPLICATION (CC, No, Date): EP 98108021 980502;

PRIORITY (CC, No, Date): US 898373 970722

DESIGNATED STATES: DE; FR; GB; IT

INTERNATIONAL PATENT CLASS: B61L-003/00;

ABSTRACT WORD COUNT: 232

LANGUAGE (Publication,Procedural,Application): English; English; English

## FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9904	2004
SPEC A	(English)	9904	6686
Total word count - document A			8690
Total word count - document B			0
Total word count - documents A + B			8690

1/3/3 (Item 3 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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00987615

**Rail vision system**

**Schienenblicksystem**

**Systeme de vision de voie ferree**

## PATENT ASSIGNEE:

WESTINGHOUSE AIR BRAKE COMPANY, (1363620), 1000 Air Brake Avenue,  
Wilmerding, PA 15148, (US), (Proprietor designated states: all)

## INVENTOR:

Kull, Robert C., 17320 Evangeline Lane, Olney, Maryland 20832, (US)

## LEGAL REPRESENTATIVE:

Petri, Stellan et al (23987), Strom & Gulliksson AB Box 41 88, 203 13  
Malmo, (SE)

PATENT (CC, No, Kind, Date): EP 893322 A1 990127 (Basic)

EP 893322 B1 021127

APPLICATION (CC, No, Date): EP 98102039 980206;

PRIORITY (CC, No, Date): US 898648 970722

DESIGNATED STATES: DE; FR; GB; IT

INTERNATIONAL PATENT CLASS: B61L-003/00; B61L-029/00

ABSTRACT WORD COUNT: 206

## NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

## FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	199904	2275
CLAIMS B	(English)	200248	900
CLAIMS B	(German)	200248	799
CLAIMS B	(French)	200248	1247
SPEC A	(English)	199904	7553
SPEC B	(English)	200248	7333
Total word count - document A			9830
Total word count - document B			10279
Total word count - documents A + B			20109

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T S1/3/1-3

1/3/1 (Item 1 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

(c) 2005 European Patent Office. All rts. reserv.

01070353

**Guidance system for an automated guided-vehicle****Steuerungssystem fur automatisches Fahrzeug****Système de guidage pour un vehicule automatique**

PATENT ASSIGNEE:

JERVIS B. WEBB INTERNATIONAL COMPANY, (1880542), 34375 West Twelve Mile  
Road, Farmington Hills, Michigan 48331-5624, (US), (Proprietor  
designated states: all)

INVENTOR:

Alofs, Cornell W., 3622 Pickerel Lake Road, Petoskey, Michigan 49770,  
(US)

Drenth, Ronald R., 2713 Harvard Dr., Warrington, Pennsylvania 18976, (US)

LEGAL REPRESENTATIVE:

Petri, Stellan et al (23987), Strom & Gulliksson AB Box 41 88, 203 13  
Malmo, (SE)

PATENT (CC, No, Kind, Date): EP 942345 A1 990915 (Basic)  
EP 942345 B1 020502

APPLICATION (CC, No, Date): EP 99103514 990224;

PRIORITY (CC, No, Date): US 38693 980309

DESIGNATED STATES: DE; ES; FI; FR; GB; IT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G05D-001/12; G05D-001/02; B60L-009/00

ABSTRACT WORD COUNT: 99

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	199937	829
CLAIMS B	(English)	200218	1238
CLAIMS B	(German)	200218	1137
CLAIMS B	(French)	200218	1456
SPEC A	(English)	199937	4079
SPEC B	(English)	200218	4080
Total word count - document A			4909
Total word count - document B			7911
Total word count - documents A + B			12820

1/3/2 (Item 2 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

(c) 2005 European Patent Office. All rts. reserv.

00987638

**Intergrated cab signal rail navigation system****Integriertes Fuhrerstandsmelde- und Schienennavigationssystem****Système integre de signalisation de cabine et de navigation ferroviaire**

PATENT ASSIGNEE:

WESTINGHOUSE AIR BRAKE COMPANY, (1363620), 1000 Air Brake Avenue,  
Wilmerding, PA 15148, (US), (applicant designated states:  
AT;BE;CH;CY;DE;DK;ES;FI;FR;GB;GR;IE;IT;LI;LU;MC;NL;PT;SE)

INVENTOR:

Kull, Robert C., 17320 Evangeline Lane, Olney, Maryland 20832, (US)

T S2/3/1-2

2/3/1 (Item 1 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

(c) 2005 European Patent Office. All rts. reserv.

01448537

**Bicycle shift control device****Steuerungseinrichtung fur eine Fahrradgangschaltung****Dispositif de commande de changement de vitesses pour bicyclette**

PATENT ASSIGNEE:

Shimano Inc., (212688), 77 Oimatsu-cho 3-cho, Sakai-shi, Osaka 590-8577,  
(JP), (Applicant designated States: all)

INVENTOR:

Takebayashi, Haruyuki, 1-12-3, Oihara, Yao-shi, Osaka, (JP)

LEGAL REPRESENTATIVE:

Cooper, John et al (76421), Murgitroyd & Company 165-169 Scotland Street,  
Glasgow G5 8PL, (GB)PATENT (CC, No, Kind, Date): EP 1238903 A2 020911 (Basic)  
EP 1238903 A3 050504

APPLICATION (CC, No, Date): EP 2002251612 020307;

PRIORITY (CC, No, Date): JP 200163500 010307

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: B62M-025/04; B62M-025/08

ABSTRACT WORD COUNT: 74

NOTE:

Figure number on first page: 6

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200237	569
SPEC A	(English)	200237	5258
Total word count - document A			5827
Total word count - document B			0
Total word count - documents A + B			5827

2/3/2 (Item 2 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

(c) 2005 European Patent Office. All rts. reserv.

00858964

**Rail navigation system****Schienennavigationssystem****Systeme de navigation ferroviaire**

PATENT ASSIGNEE:

WESTINGHOUSE AIR BRAKE COMPANY, (1363620), 1000 Air Brake Avenue,  
Wilmerding, PA 15148, (US), (applicant designated states: DE;FR;GB;IT)

INVENTOR:

Kull, Robert C., 17320 Evangeline Lane, Olney, Maryland 20832, (US)

Woodward, Roger P., 7118 Fulton Street, San Francisco, Cal. 94121, (US)

LEGAL REPRESENTATIVE:

Petri, Stellan et al (23987), Strom & Gulliksson AB Box 41 88, 203 13  
Malmo, (SE)

PATENT (CC, No, Kind, Date): EP 791518 A1 970827 (Basic)

APPLICATION (CC, No, Date): EP 96114693 960913;

PRIORITY (CC, No, Date): US 604032 960220

DESIGNATED STATES: DE; FR; GB; IT  
INTERNATIONAL PATENT CLASS: B61L-003/00;  
ABSTRACT WORD COUNT: 103

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9708W4	1552
SPEC A	(English)	9708W4	3502
Total word count - document A			5054
Total word count - document B			0
Total word count - documents A + B			5054
?			